

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-5. (Canceled)

6. (Currently Amended) A passenger aircraft comprising; having
a cabin sub-divided into a plurality of cabin zones supplied with feed air from respective supply lines; ~~the passenger aircraft comprising;~~

a plurality of temperature sensors located in at least one of the plurality of cabin zones
and temperature sensor system operable to measure generate a plurality of individual ambient
temperature values for associated with different locations in the at least one cabin zone, for at
least a portion of the plurality of cabin zones; and

an electronic control unit coupled to the plurality of temperature sensors sensor system
and configured to derive an actual a measured ambient temperature value for the at least one a
selected cabin zone from the plurality of individual ambient temperature values for the at least
one selected cabin zone, and further configured to control the temperature of the feed air
supplied to the at least one selected cabin zone based on a difference between the actual
measured ambient temperature value for the at least one selected cabin zone and a room
temperature target value for the at least one selected cabin zone.

7. (Currently Amended) The passenger aircraft of claim 6, wherein at least a portion of the
plurality of temperature sensors are the temperature sensor system includes a plurality of discrete

~~temperature sensors~~ positioned at different locations in the at least one [[a]] cabin zone ~~for generating respective individual temperature values.~~

8. (Currently Amended) The passenger aircraft of claim 7, wherein at least a portion of the plurality of ~~discrete~~ temperature sensors are spaced from each other along a lengthwise direction of the at least one ~~selected~~ cabin zone.

9. (Currently Amended) The passenger aircraft of claim 8, wherein each of the plurality of ~~discrete~~ temperature sensors are spaced from each other along a lengthwise direction of the at least one ~~selected~~ cabin zone.

10. (Currently Amended) The passenger aircraft of claim 6, wherein the electronic control unit derives the actual ~~measured~~ ambient temperature value for the at least one ~~selected~~ cabin zone by averaging at least a portion of the plurality of individual ambient temperature values for the selected cabin zone.

11. (Currently Amended) The passenger aircraft of claim 10, wherein the electronic control unit compares each of the plurality of individual ambient temperature values for the at least one ~~selected~~ cabin zone to a predetermined reference value, and averages only the individual ambient temperature values that comply with a predetermined condition with respect to the predetermined reference value.

12. (New) The passenger aircraft of claim 11, wherein the predetermined reference value is a threshold temperature range, and the electronic control unit only averages the individual ambient temperature values that are determined to be within the threshold temperature range.